Q430 0930 OIPE
6103

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/998,284   ENTERED

CRF Processing Date: 12/11/2001
Edited by: _____
Verified by: _____AV_____ (STIC staff

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☑ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.
3/1/95

RAW SEQUENCE LISTING DATE: 12/11/2001
PATENT APPLICATION: US/09/998,284 TIME: 17:00:33 #2.

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF3\12112001\I998284.raw**

```
       3 <110> APPLICANT: POULSEN, et al.
       5 <120> TITLE OF INVENTION: COMPOSITION
       7 <130> FILE REFERENCE: 674509-2035
C-->   9 <140> CURRENT APPLICATION NUMBER: US/09/998,284
C-->   9 <141> CURRENT FILING DATE: 2001-11-30
       9 <150> PRIOR APPLICATION NUMBER: PCT/IB00/00829
      10 <151> PRIOR FILING DATE: 2000-06-02
      12 <150> PRIOR APPLICATION NUMBER: GB 9913050.2
      13 <151> PRIOR FILING DATE: 1999-06-04
      15 <160> NUMBER OF SEQ ID NOS: 2
      17 <170> SOFTWARE: PatentIn version 3.1
      19 <210> SEQ ID NO: 1
      20 <211> LENGTH: 1644
      21 <212> TYPE: DNA
      22 <213> ORGANISM: Chondrus crispus
      24 <400> SEQUENCE: 1
      25 atggctactt tgccacaaaa ggacccaggt tacattgtta ttgacgtcaa cgctggtact      60
      27 ccagacaagc ctgacccaag attgccatcc atgaagcaag gtttcaacag aagatggatt     120
      29 ggtaccaaca tcgatttcgt ttacgtcgtt tacactccac aaggtgcttg tactgctttg     180
      31 gacagagcta tggaaaagtg ttctccaggt accgtcagaa tcgtttctgg tggtcactgt     240
      33 tacgaagact tcgttttcga cgaatgtgtc aaggctatta tcaacgttac tggtttggtt     300
      35 gaatctggtt acgacgacga tagaggttac ttcgtctctt ccggtgacac caactggggt     360
      37 tccttcaaga ccttgttcag agaccacggt agagttttgc caggtggttc ctgttactcc     420
      39 gtcggtttgg gtggtcacat tgtcggtgga ggtgacggta ttttggccag attgcacggt     480
      41 ttgccagtcg attggttatc cggtgttgaa gttgtcgtta agccagtctt gaccgaagac     540
      43 tctgttctta agtacgttca caaggattcc gaaggtaacg acggtgagtt gttttgggct     600
      45 cacactggtg gaggtggagg taacttcggt attatcacca aatactactt caaggatttg     660
      47 ccaatgtctc aagaggtgt catcgcttct aacttacact tctcttggga cggtttcact     720
      49 agagatgcct tgcaagattt gttgactaag tacttcaagt tggctagatg tgattggaag     780
      51 aatactgttg gtaagttcca aatcttccac caagcagctg aagagtttgt tatgtacttg     840
      53 tatacatcct actctaacga cgccgagaga gaagttgccc aagacagaca ctatcatttg     900
      55 gaggctgaca ttgaacagat ctacaaaaca tgcgagccta ccaaagctct tggtggtcat     960
      57 gctggttggg ctcctttccc tgttagacct agaaagagac acacatccaa gacttcttat    1020
      59 atgcatgacg agactatgga ctacccttc tacgctttga ctgagactat caacggttcc    1080
      61 ggtcctaatc agagaggtaa gtacaagtct gcttacatga tcaaggactt ccagacttc    1140
      63 cagattgatg ttatctggaa ataccttact gaggttcctg acggtttgac tagtgccgaa    1200
      65 atgaaggatg ctcttcttca ggttgatatg ttcggtggtg agattcacaa ggttgtttgg    1260
      67 gatgctactg cagttgctca gagagagtac atcatcaaac tgcagtacca gacatactgg    1320
      69 caggaagaag acaaggatgc agttaacttg aagtggatta gagactttta cgaggagatg    1380
      71 tatgagcctt atggtggtgt tccagaccct aacactcagg ttgagagtgg taaaggtgtt    1440
      73 tttgagggat gctacttcaa ctaccctgat gttgacttga caactggaa gaacggtaag    1500
      75 tatggtgcct tggaacttta ctttttgggt aacctgaaca gattgatcaa ggccaaatgg    1560
      77 ttgtgggatc ctaacgagat cttcacaaac aaacagtcta tccctactaa acctcttaag    1620
      79 gagcctaagc agactaaata gtag    1644
      82 <210> SEQ ID NO: 2
      83 <211> LENGTH: 546
      84 <212> TYPE: PRT
```

RAW SEQUENCE LISTING   DATE: 12/11/2001
PATENT APPLICATION: US/09/998,284   TIME: 17:00:33

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\12112001\I998284.raw

```
85 <213> ORGANISM: Chondrus crispus
87 <400> SEQUENCE: 2
89 Met Ala Thr Leu Pro Gln Lys Asp Pro Gly Tyr Ile Val Ile Asp Val
90 1               5                   10                  15
93 Asn Ala Gly Thr Pro Asp Lys Pro Asp Pro Arg Leu Pro Ser Met Lys
94              20                  25                  30
97 Gln Gly Phe Asn Arg Arg Trp Ile Gly Thr Asn Ile Asp Phe Val Tyr
98          35                  40                  45
101 Val Val Tyr Thr Pro Gln Gly Ala Cys Thr Ala Leu Asp Arg Ala Met
102      50                  55                  60
105 Glu Lys Cys Ser Pro Gly Thr Val Arg Ile Val Ser Gly Gly His Cys
106 65                  70                  75                  80
109 Tyr Glu Asp Phe Val Phe Asp Glu Cys Val Lys Ala Ile Ile Asn Val
110              85                  90                  95
113 Thr Gly Leu Val Glu Ser Gly Tyr Asp Asp Asp Arg Gly Tyr Phe Val
114          100                 105                 110
117 Ser Ser Gly Asp Thr Asn Trp Gly Ser Phe Lys Thr Leu Phe Arg Asp
118          115                 120                 125
121 His Gly Arg Val Leu Pro Gly Gly Ser Cys Tyr Ser Val Gly Leu Gly
122      130                 135                 140
125 Gly His Ile Val Gly Gly Gly Asp Gly Ile Leu Ala Arg Leu His Gly
126 145                 150                 155                 160
129 Leu Pro Val Asp Trp Leu Ser Gly Val Glu Val Val Val Lys Pro Val
130              165                 170                 175
133 Leu Thr Glu Asp Ser Val Leu Lys Tyr Val His Lys Asp Ser Glu Gly
134          180                 185                 190
137 Asn Asp Gly Glu Leu Phe Trp Ala His Thr Gly Gly Gly Gly Gly Asn
138          195                 200                 205
141 Phe Gly Ile Ile Thr Lys Tyr Tyr Phe Lys Asp Leu Pro Met Ser Pro
142      210                 215                 220
145 Arg Gly Val Ile Ala Ser Asn Leu His Phe Ser Trp Asp Gly Phe Thr
146 225                 230                 235                 240
149 Arg Asp Ala Leu Gln Asp Leu Leu Thr Lys Tyr Phe Lys Leu Ala Arg
150              245                 250                 255
153 Cys Asp Trp Lys Asn Thr Val Gly Lys Phe Gln Ile Phe His Gln Ala
154          260                 265                 270
157 Ala Glu Glu Phe Val Met Tyr Leu Tyr Thr Ser Tyr Ser Asn Asp Ala
158          275                 280                 285
161 Glu Arg Glu Val Ala Gln Asp Arg His Tyr His Leu Glu Ala Asp Ile
162      290                 295                 300
165 Glu Gln Ile Tyr Lys Thr Cys Glu Pro Thr Lys Ala Leu Gly Gly His
166 305                 310                 315                 320
169 Ala Gly Trp Ala Pro Phe Pro Val Arg Pro Arg Lys Arg His Thr Ser
170              325                 330                 335
173 Lys Thr Ser Tyr Met His Asp Glu Thr Met Asp Tyr Pro Phe Tyr Ala
174          340                 345                 350
177 Leu Thr Glu Thr Ile Asn Gly Ser Gly Pro Asn Gln Arg Gly Lys Tyr
178          355                 360                 365
181 Lys Ser Ala Tyr Met Ile Lys Asp Phe Pro Asp Phe Gln Ile Asp Val
```

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182      370                    375                    380
185 Ile Trp Lys Tyr Leu Thr Glu Val Pro Asp Gly Leu Thr Ser Ala Glu
186 385                    390                    395                    400
189 Met Lys Asp Ala Leu Leu Gln Val Asp Met Phe Gly Gly Glu Ile His
190                    405                    410                    415
193 Lys Val Val Trp Asp Ala Thr Ala Val Ala Gln Arg Glu Tyr Ile Ile
194                    420                    425                    430
197 Lys Leu Gln Tyr Gln Thr Tyr Trp Gln Glu Glu Asp Lys Asp Ala Val
198          435                    440                    445
201 Asn Leu Lys Trp Ile Arg Asp Phe Tyr Glu Glu Met Tyr Glu Pro Tyr
202      450                    455                    460
205 Gly Gly Val Pro Asp Pro Asn Thr Gln Val Glu Ser Gly Lys Gly Val
206 465                    470                    475                    480
209 Phe Glu Gly Cys Tyr Phe Asn Tyr Pro Asp Val Asp Leu Asn Asn Trp
210                    485                    490                    495
213 Lys Asn Gly Lys Tyr Gly Ala Leu Glu Leu Tyr Phe Leu Gly Asn Leu
214                    500                    505                    510
217 Asn Arg Leu Ile Lys Ala Lys Trp Leu Trp Asp Pro Asn Glu Ile Phe
218          515                    520                    525
221 Thr Asn Lys Gln Ser Ile Pro Thr Lys Pro Leu Lys Glu Pro Lys Gln
222      530                    535                    540
225 Thr Lys
226 545
```

VERIFICATION SUMMARY   DATE: 12/11/2001
PATENT APPLICATION: US/09/998,284   TIME: 17:00:34

Input Set : **A:\PTO.AMC.txt**
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L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date